

## Spring 2022 MTH 3350 Data Science Portfolio I Syllabus and Expectations

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In this course, you will propose your three-course sequence in an applied field and learn how to assemble your Data Science Portfolio. You may even begin assembling your portfolio. The information below is taken from the proposal for the data science major.

With the guidance of a mentor, students will self-design a three-course concentration in which data analysis is used in a significant way. One course that provides background content may be part of the concentration. This is consistent with our focus on studying data science in context. All self-designed concentrations must be approved by the Mathematics Department Chair, in consultation with the Data Science Working Group and, if necessary, other department chairs. We provide some samples as examples of what such concentrations could contain.

### Concentration in Geoinformatics:

GEO 1610 Introduction to Geographic Information Science: Mapping Your World  
GEO 2610 Advanced Geographic Information Science and Analytical Cartography  
GEO 4600 Applied Projects in Geographic Information Science

### Concentration in Environmental Statistics:

ENV 1000 Introduction to Environmental Science  
ENV 2100 Quantitative Environmental Analysis  
ENV 2610 Case Studies in Environmental Science

### Concentration in Business Analytics

FIN 3210 Corporate Finance (requires ACC 2010)  
MGT 3100 Introduction to Business Analytics  
MKT 4210 Marketing Research (requires MKT 3130)

### Concentration in Economic Quantitative Methods and Policy Analysis

ECN 2510: Intermediate Microeconomics (requires ECN 1010 or 1030)  
ECN 3340: Introduction to Econometrics  
An economics elective course 3000 or above

## EVALUATION

Proposal Completion and Evaluation .....	60%
Participation and Effort .....	40%
TOTAL .....	100%

**TEXT:** This class requires no text.

**NOTES:** I am looking forward to getting to know each one of you this semester. I believe we will have an interesting and dynamic learning experience. By the end of this course, I hope you know exactly what is expected of you as you work to complete you Data Science Major.

**Carthage College strives to make all learning experiences as accessible as possible.** If you anticipate or experience academic barriers due to your disability (including mental health, learning disorders and chronic medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, you also need to register with Diane Schowalter in Learning Accessibility Services ([dschowalter1@carthage.edu](mailto:dschowalter1@carthage.edu)).